

FIG.1

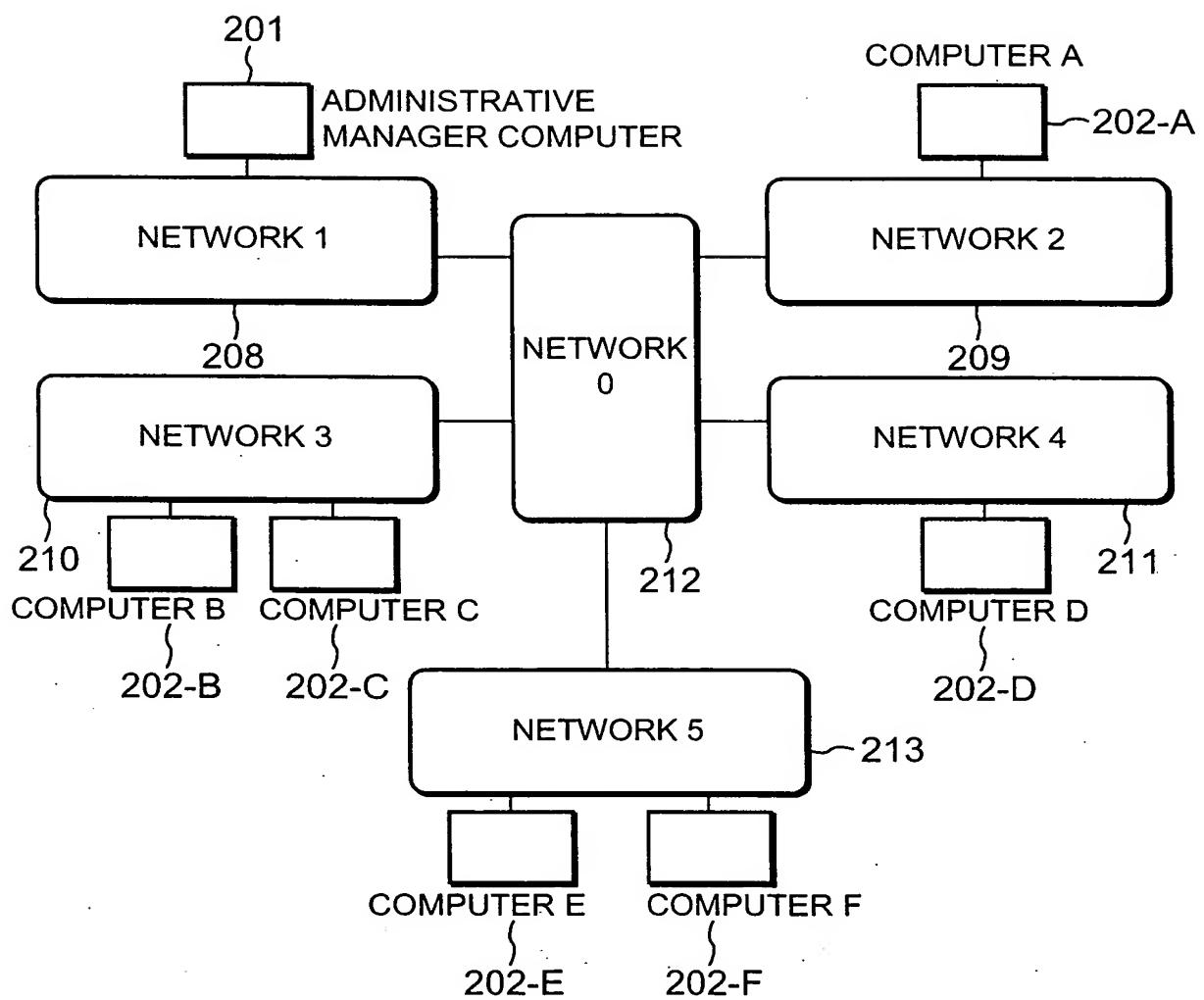


FIG.2

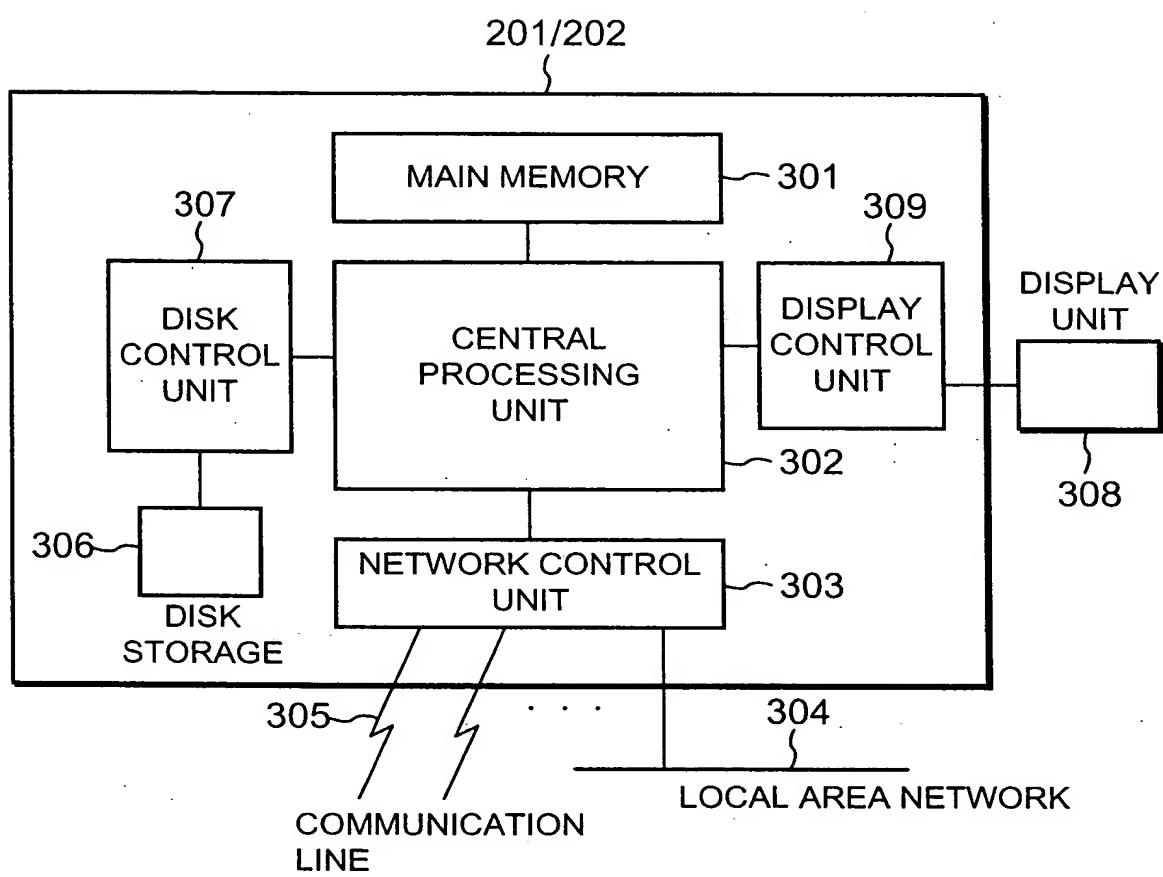
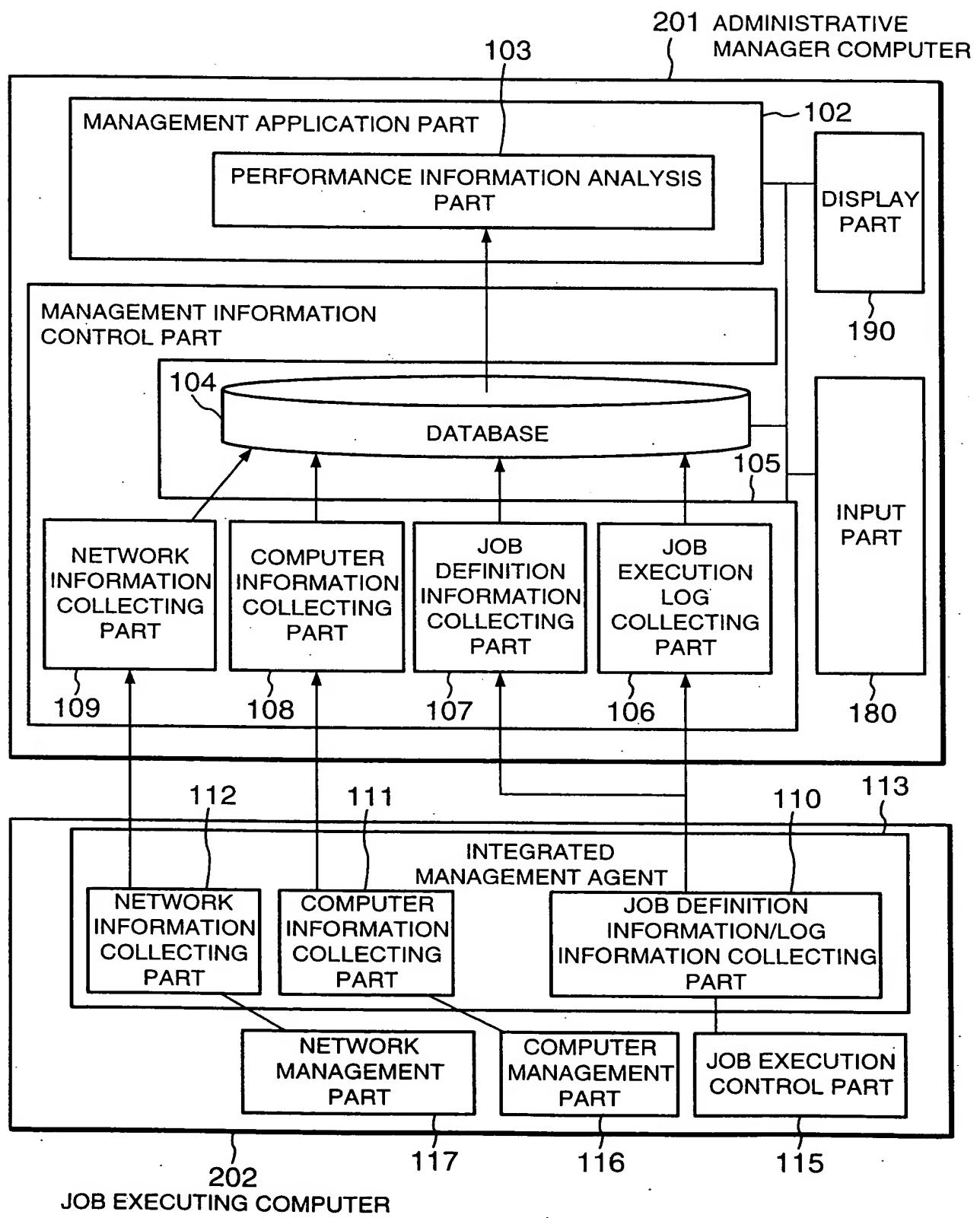


FIG.3



JOB NET DEFINITIONS

**FIG.4A**

OPERATIONAL DEFINITION IDENTIFIER	JOB NET NAME	STARTING DAY OF THE WEEK/ STARTING DAY	START TIME	COMPONENT JOBS DEFINITION
1101	JOB NET A	MONDAY - FRIDAY	9:30	JOB 1, {JOB 2, JOB 3}, JOB 4, JOB 5
1102	JOB NET B	MONDAY - FRIDAY	10:30	JOB 1, JOB 2, JOB 3

JOB NET A  
JOB NET B

DEFINITION OF EACH JOB CONSTITUTING A JOB NET

**FIG.4B**

JOB NAME	PLANNED START TIME	PLANNED END TIME	OPERATIONAL DEFINITION IDENTIFIER	COMPUTER NAME	ALTERNATIVE CANDIDATE NAME	EXECUTABLE FILE NAME	PORT NUMBER
JOB 1	9:30	10:00	1101-1	COMPUTER A	COMPUTER E	abc1.exe	2001
JOB 2	10:00	10:30	1101-2	COMPUTER B	COMPUTER F	abc2.exe	2002
JOB 3	10:00	10:30	1101-3	COMPUTER C	—	abc3.exe	2003
JOB 4	10:30	11:00	1101-4	COMPUTER D	—	abc4.exe	2004
JOB 5	11:30	12:30	1101-5	COMPUTER E	COMPUTER A	abc5.exe	2005

JOB NET A  
JOB NET B

JOB NAME	PLANNED START TIME	PLANNED END TIME	OPERATIONAL DEFINITION IDENTIFIER	COMPUTER NAME	ALTERNATIVE CANDIDATE NAME	EXECUTABLE FILE NAME	PORT NUMBER
JOB 1	10:00	10:30	1102-1	COMPUTER B	COMPUTER F	def1.exe	3001
JOB 2	10:30	11:00	1102-2	COMPUTER E	COMPUTER A	def2.exe	3002
JOB 3	11:00	11:30	1102-3	COMPUTER C	COMPUTER D	def3.exe	3003

FIG.5

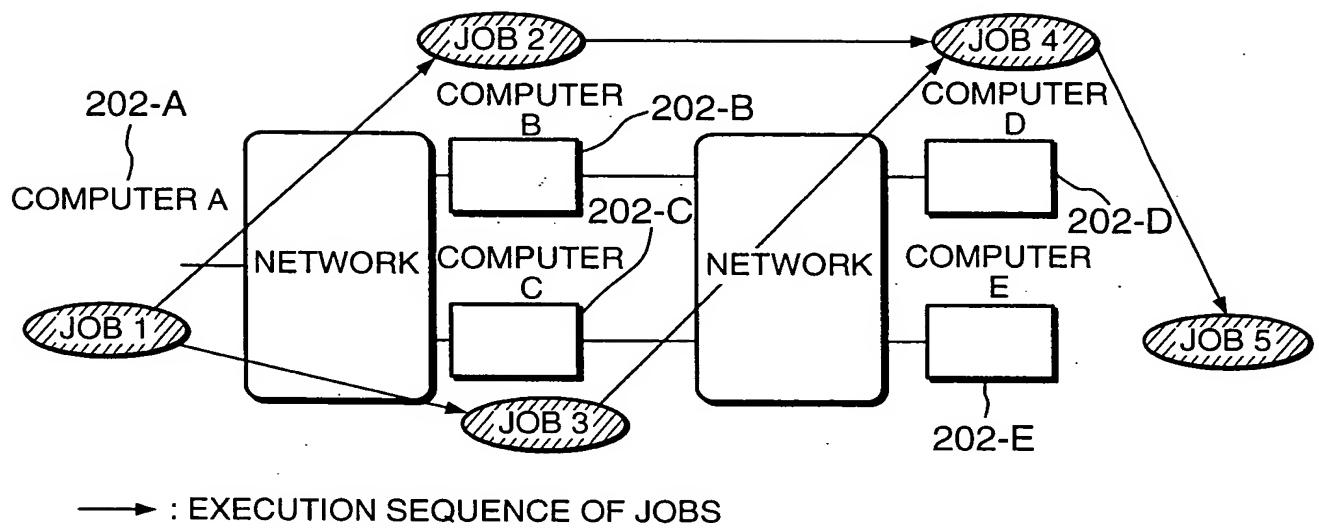
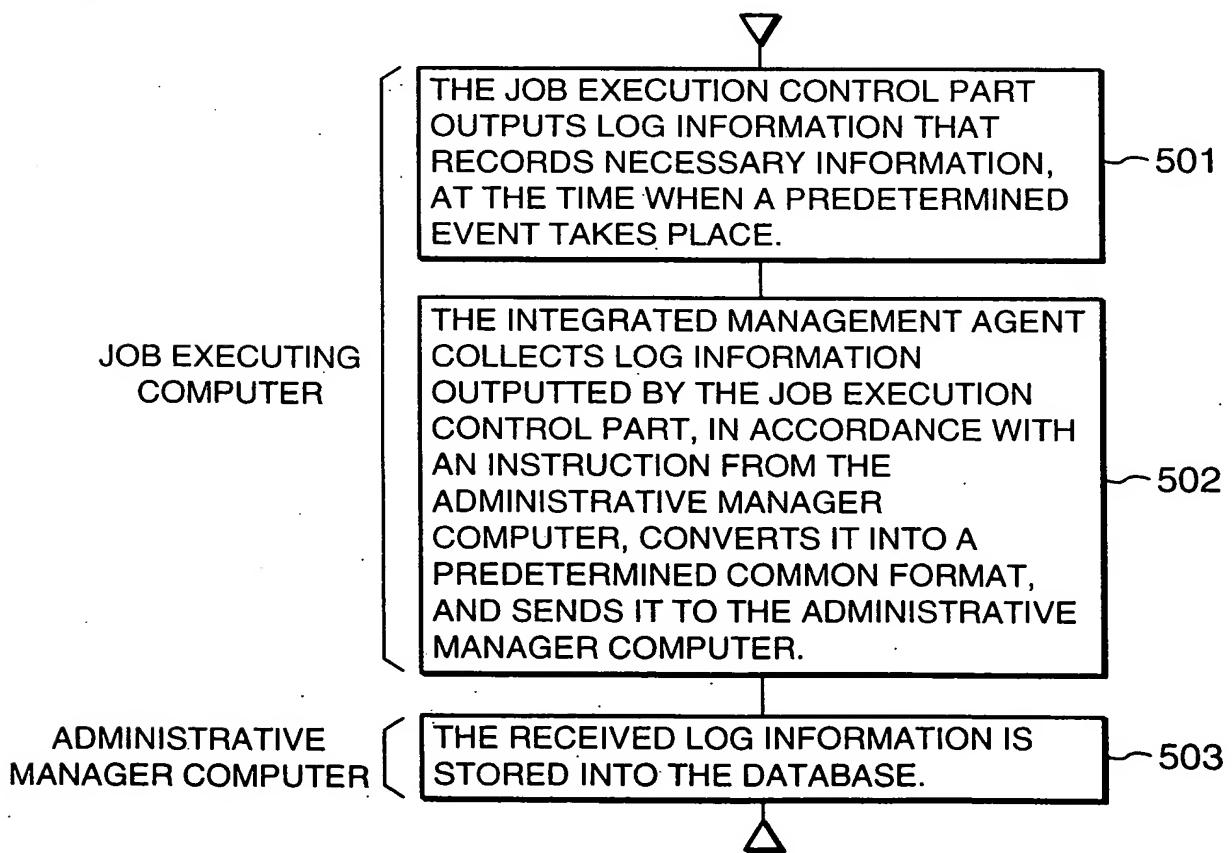


FIG.6



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## FIG.7

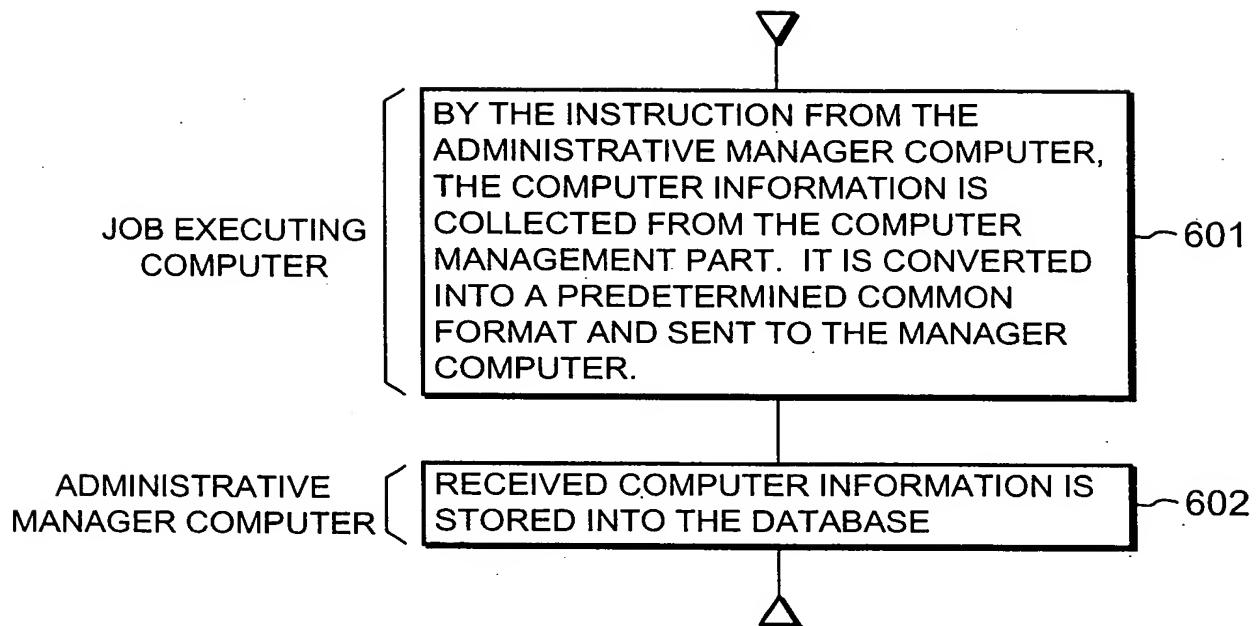
### LOG INFORMATION

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EVENT LOG IDENTIFIER	COMPUTER NAME	TIME	EVENT LOG CLASS	OPERATIONAL DEFINITION IDENTIFIER	DETAILED INFORMATION
1001	COMPUTER A	6/16 9:30	START OF JOB NET A	1101	NORMAL START-UP
1002	COMPUTER A	6/16 9:30	START OF JOB NET A - JOB 1	1101-1	NORMAL START-UP
1003	COMPUTER A	6/16 10:00	END OF JOB NET A - JOB 1	1101-1	NORMAL END
1002	COMPUTER B	6/16 10:00	START OF JOB NET A - JOB 2	1101-2	NORMAL START-UP
1003	COMPUTER B	6/16 10:34	END OF JOB NET A - JOB 2	1101-2	NORMAL END
1002	COMPUTER C	6/16 10:00	START OF JOB NET A - JOB 3	1101-3	NORMAL START-UP
1003	COMPUTER C	6/16 10:30	END OF JOB NET A - JOB 3	1101-3	NORMAL END
1002	COMPUTER D	6/16 10:39	START OF JOB NET A - JOB 4	1101-2	NORMAL START-UP
1003	COMPUTER D	6/16 11:09	END OF JOB NET A - JOB 4	1101-2	NORMAL END
1002	COMPUTER E	6/16 11:09	START OF JOB NET A - JOB 5	1101-2	NORMAL START-UP
1003	COMPUTER E	6/16 11:40	END OF JOB NET A - JOB 5	1101-2	NORMAL END

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## FIG.8



## FIG.9

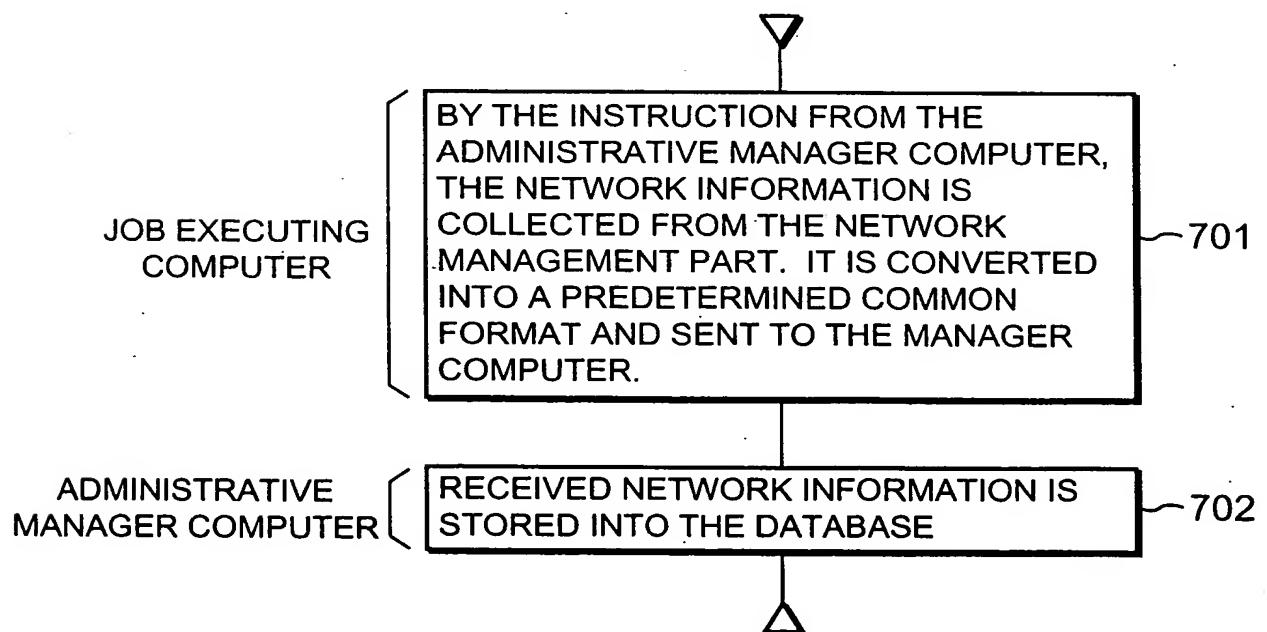


FIG.10

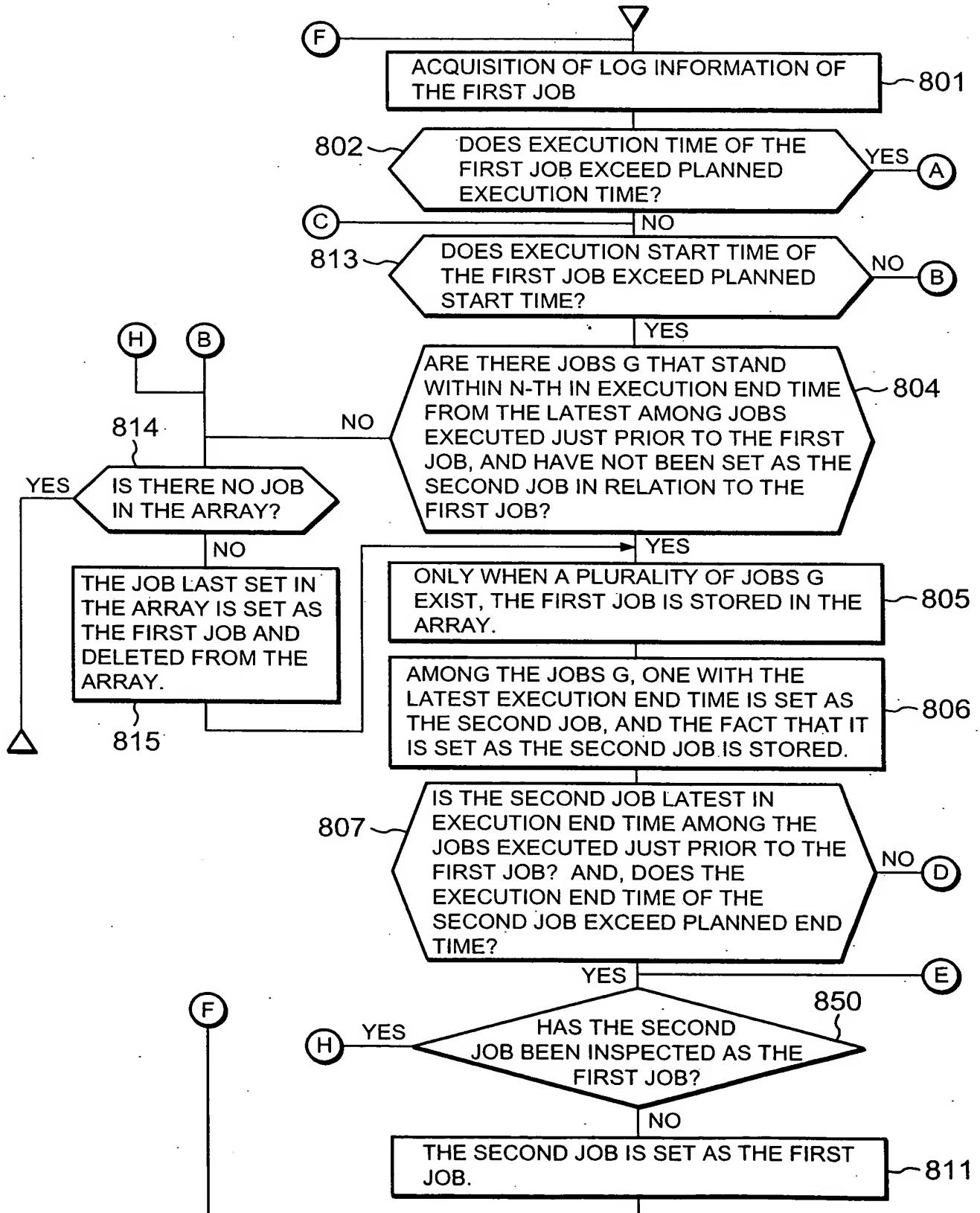
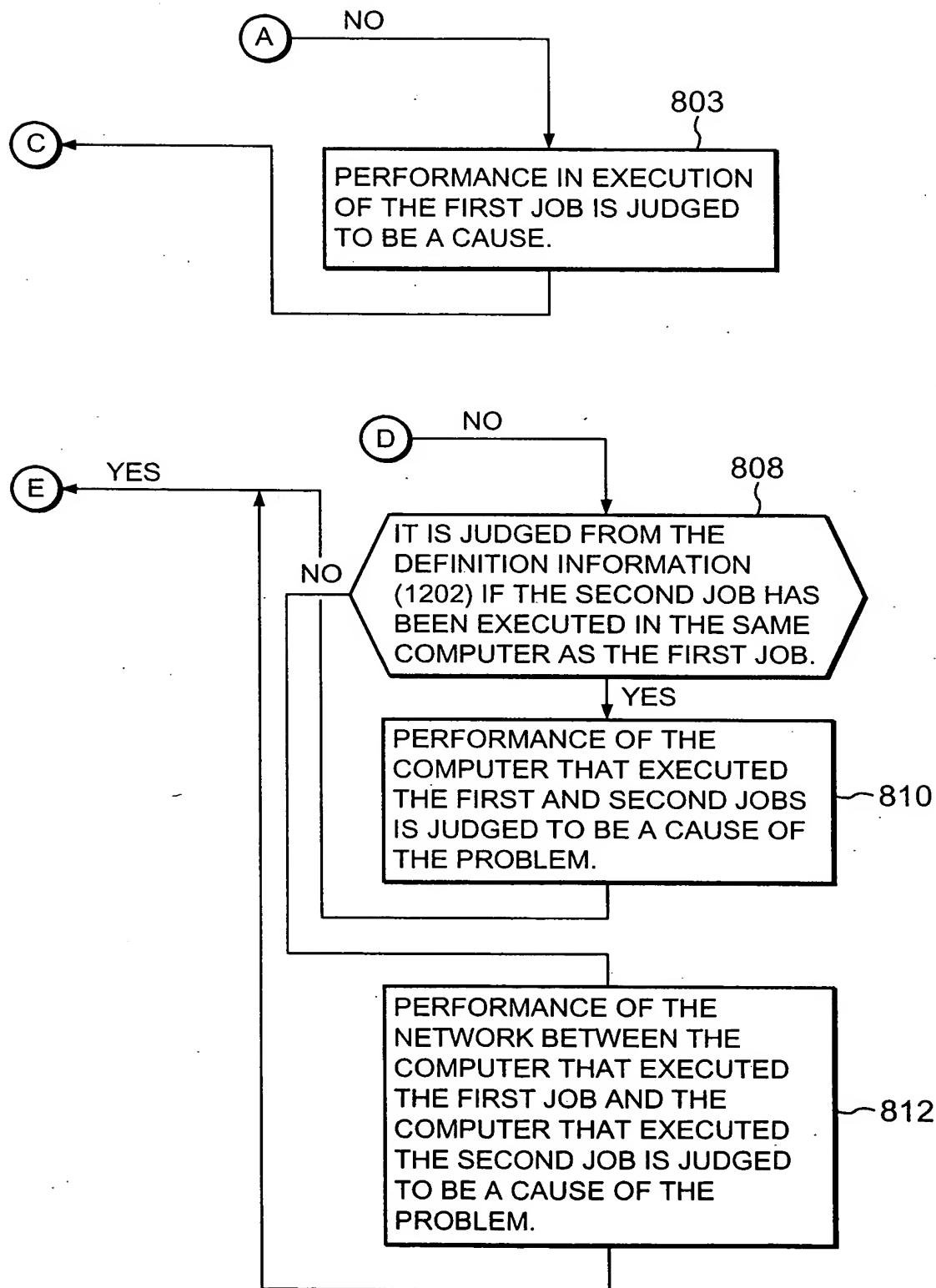


FIG.11



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**FIG. 12A**

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FAULT MONITORING SCREEN

IMPORTANCE	DATE	TIME	SOURCE OF NOTIFICATION	MESSAGE
NORMAL	97/6/19	9:02:20	COMPUTER A	POWER IS TURNED ON.
NORMAL	97/6/19	9:30:00	COMPUTER A	JOB NET A IS STARTED.
NORMAL	97/6/19	11:40:00	COMPUTER E	JOB NET A IS ENDED.
ERROR	97/6/19	9:13:30	MANAGER COMPUTER	EXECUTION DELAY OF JOB NET A IS DETECTED.
902				

**FIG. 12B**

903

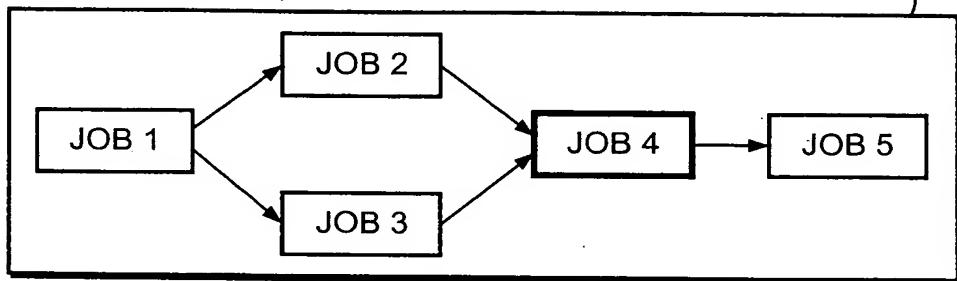
DETAIL OF ANALYSIS RESULT

IMPORTANCE	DATE	TIME	COMPUTER	JOB/JOB NET NAMES	DELAY TIME	CUMULATIVE DELAY TIME	DELAY SOURCE
NORMAL	97/6/19	9:30:00	COMPUTER A	JOB NET A - JOB 1	0	0	...
ERROR	97/6/19	10:00:00	COMPUTER B	JOB NET A - JOB 2	4	4	COMPUTER
NORMAL	97/6/19	10:00:00	COMPUTER C	JOB NET A - JOB 3	0	0	...
ERROR	97/6/19	10:39:00	COMPUTER D	JOB NET A - JOB 4	5	9	NETWORK
NORMAL	97/6/19	11:09:00	COMPUTER E	JOB NET A - JOB 5	1	10	COMPUTER

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## FIG.13A

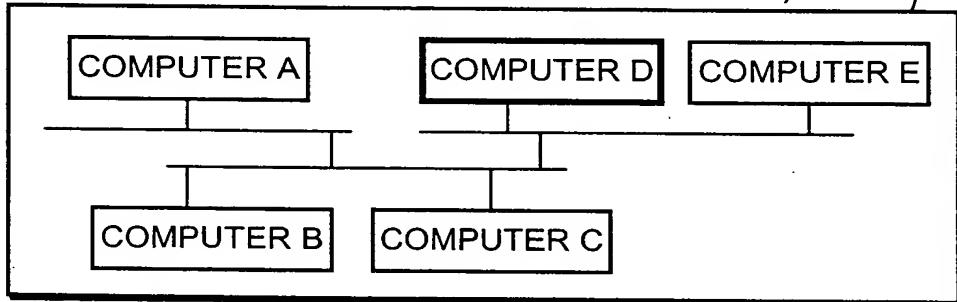
DISPLAY EXAMPLE: JOB 4 IS A CAUSE OF DELAY  
(JOB 4 IS HIGHLIGHTED)



1001

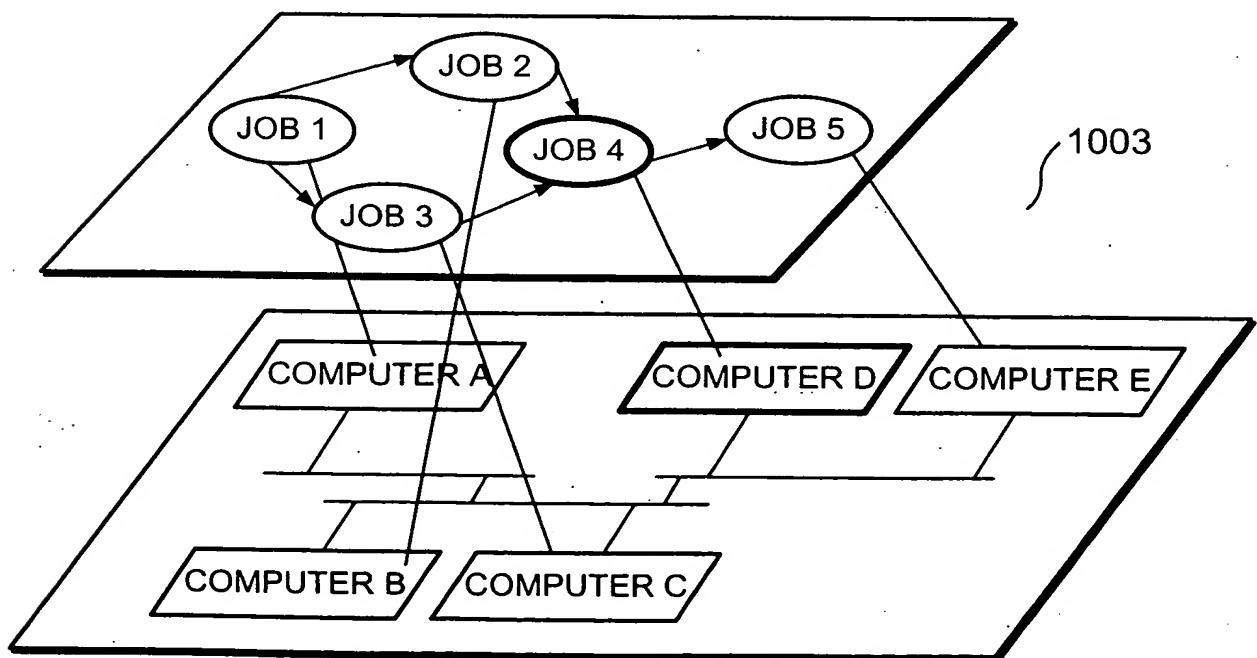
## FIG.13B

DISPLAY EXAMPLE OF CONFIGURATION OF COMPUTERS 1002  
(COMPUTER IN EXECUTION OF JOB 4 IS HIGHLIGHTED)



1002

## FIG.13C

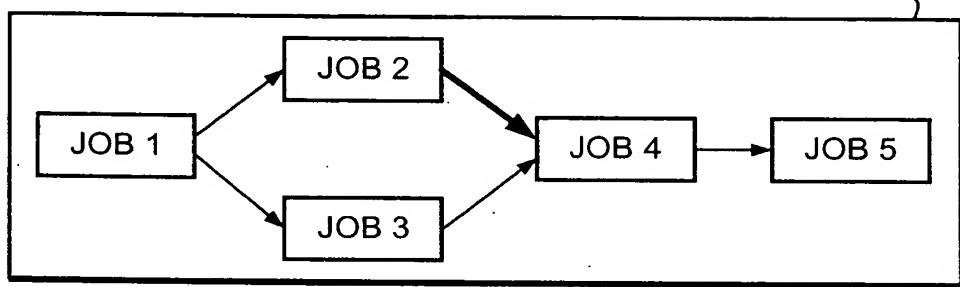


1003

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## FIG.14A

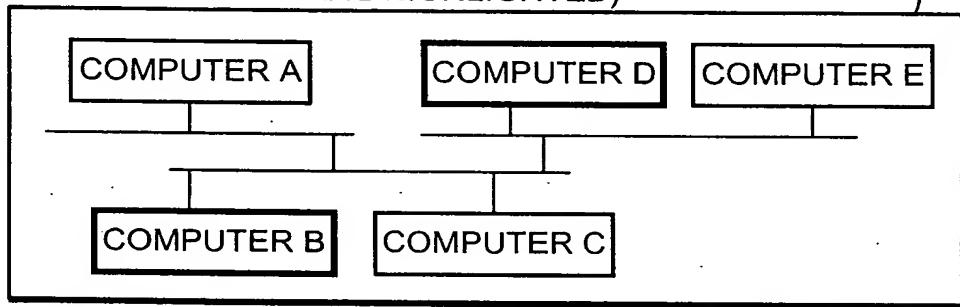
DISPLAY EXAMPLE: TRANSFER BETWEEN JOB 2 AND JOB 4 IS A CAUSE OF DELAY



1101

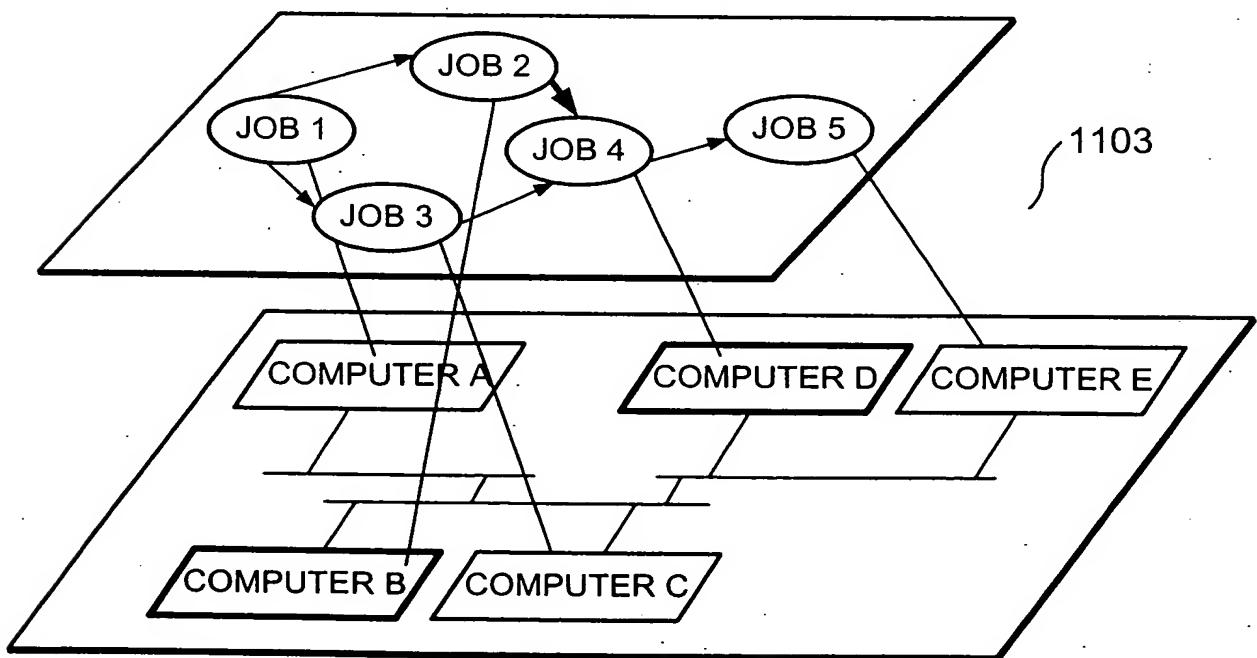
## FIG.14B

DISPLAY EXAMPLE OF CONFIGURATION OF COMPUTERS  
(COMPUTER B IN EXECUTION OF JOB 2 AND COMPUTER D 1102  
IN EXECUTION OF JOB 4 ARE HIGHLIGHTED)



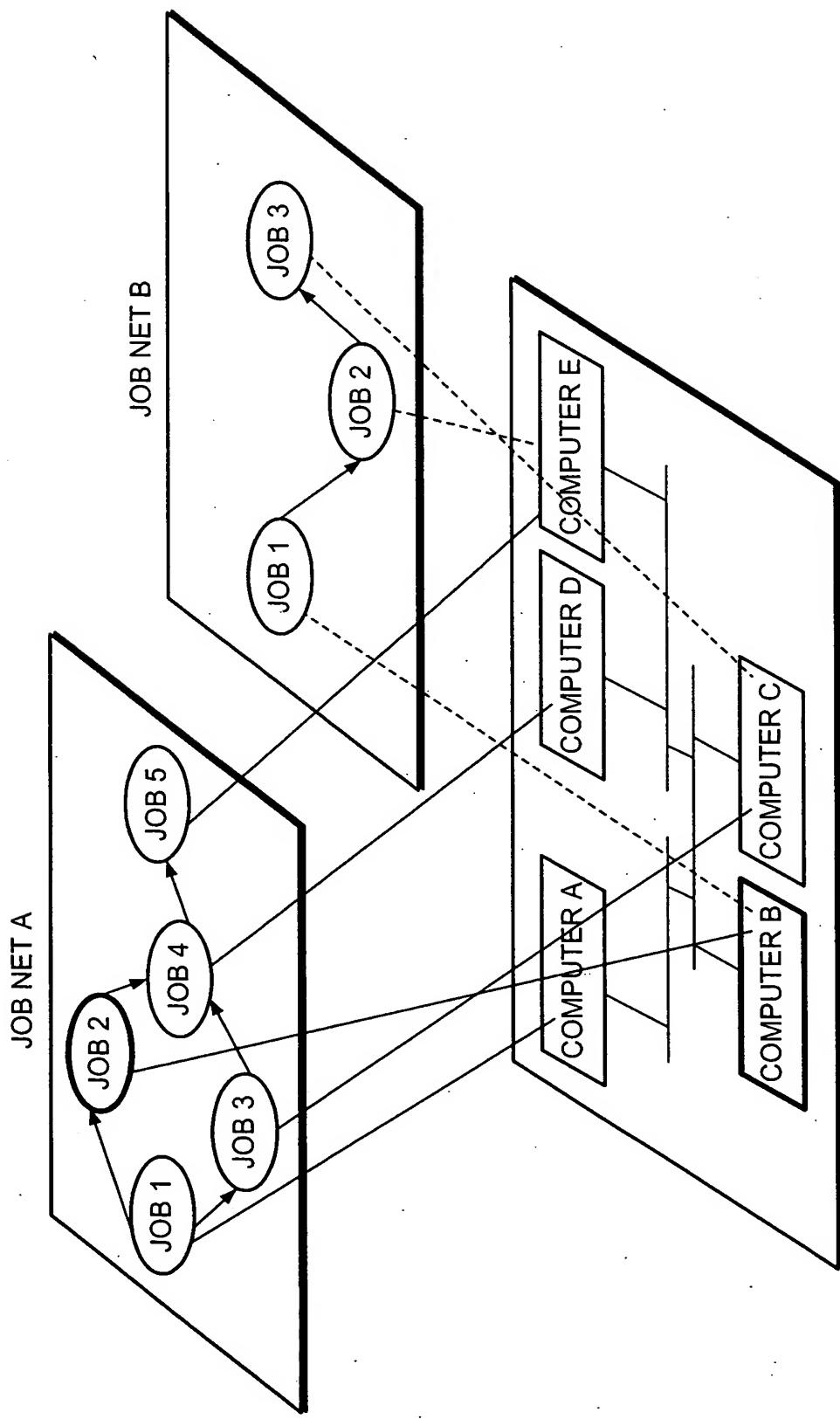
1102

## FIG.14C



1103

FIG.15



JOB 2 OF JOB NET A AND JOB 1 OF JOB NET B ARE EXECUTED IN PARALLEL IN COMPUTER B.  
→ LOAD OF COMPUTER B IS PRESSED.

FIG.16

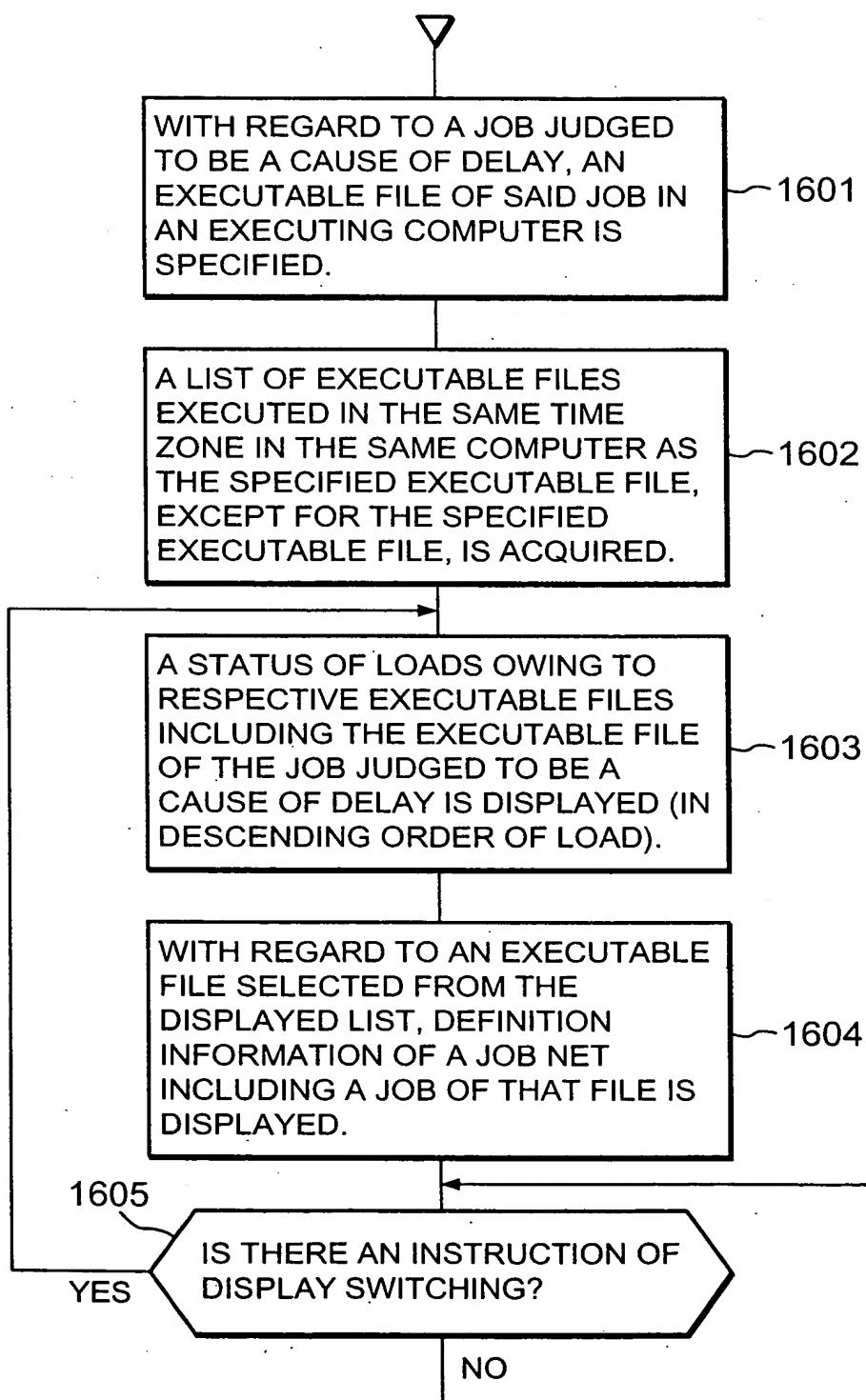


FIG.17

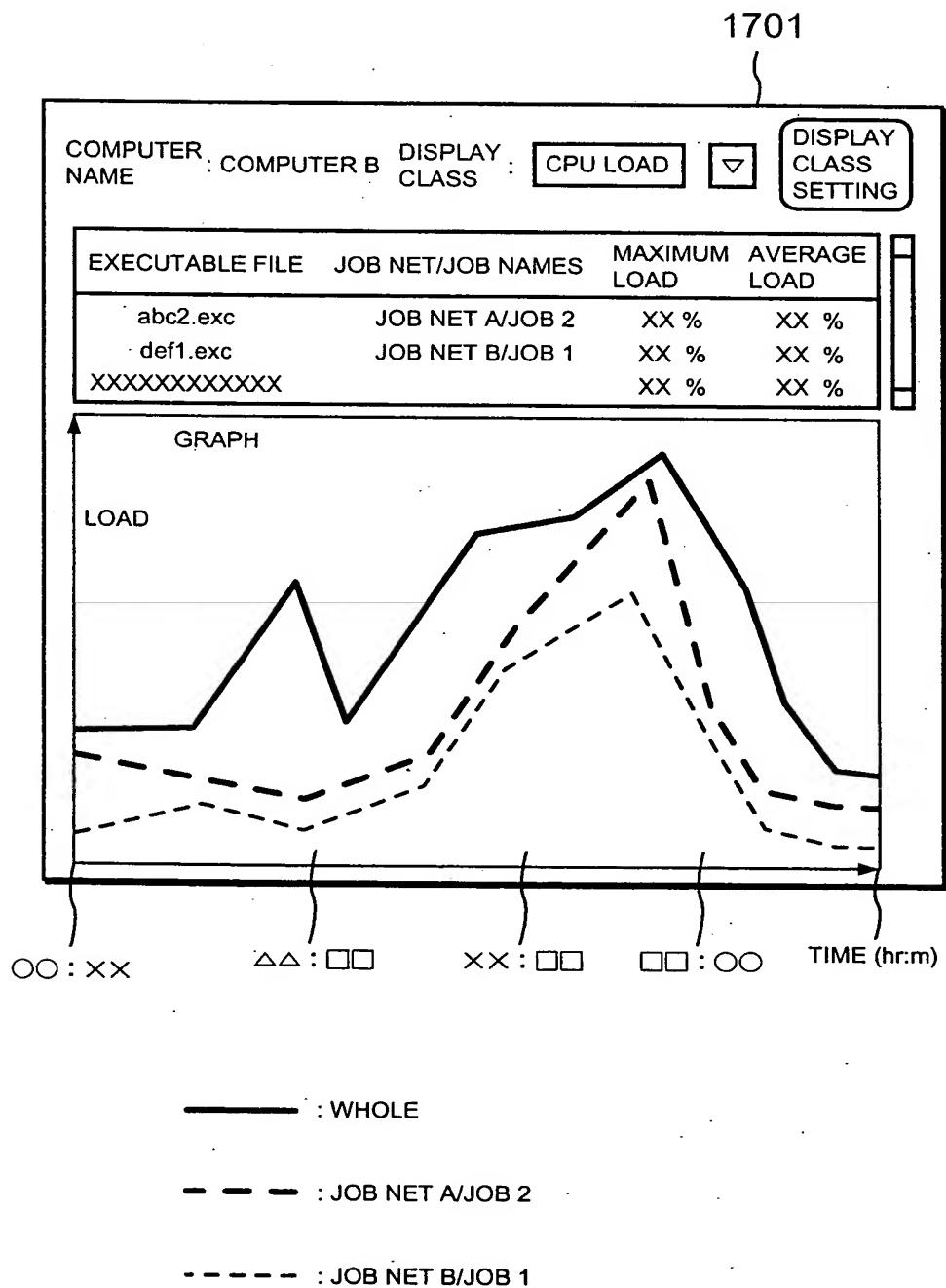
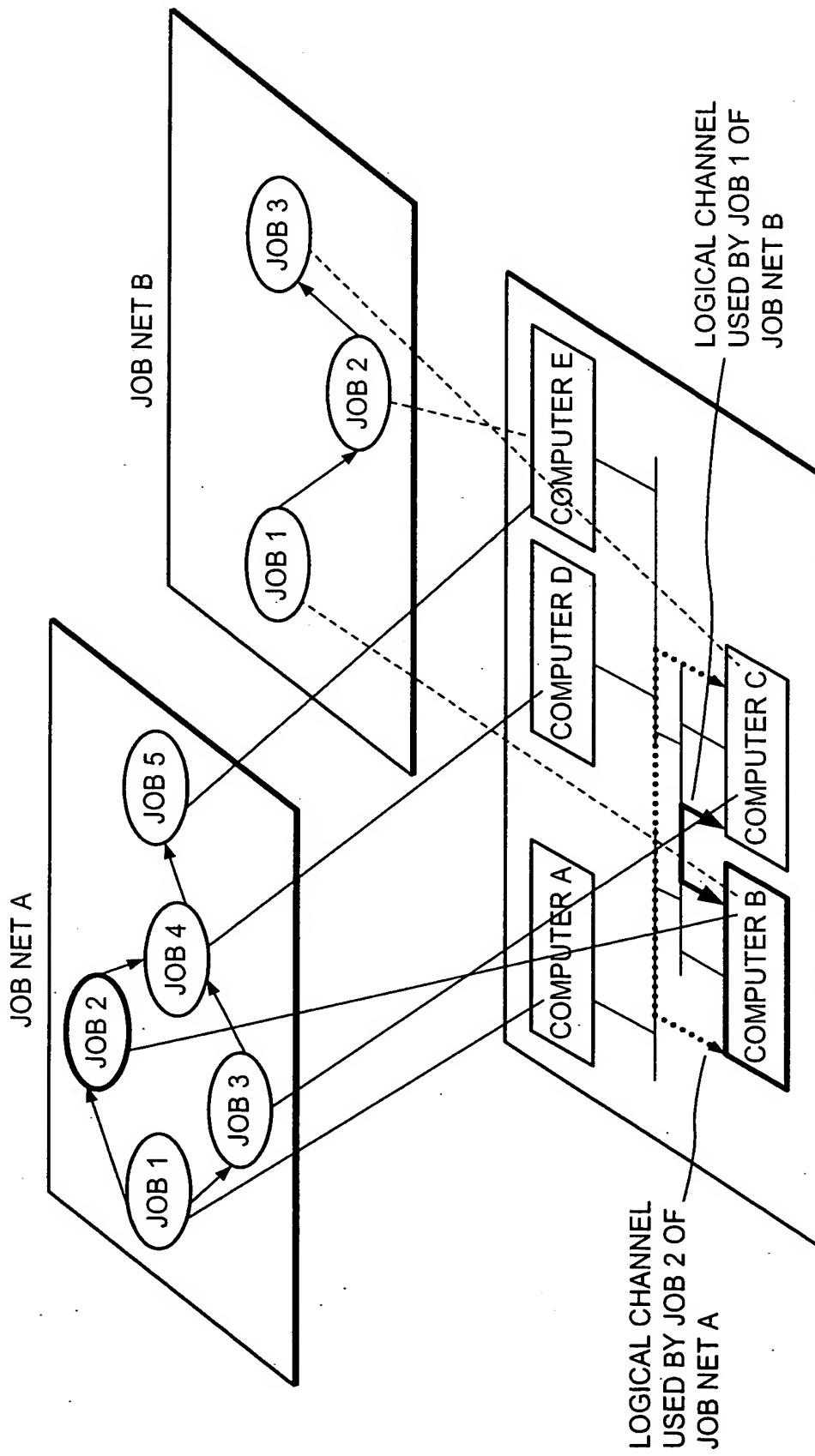
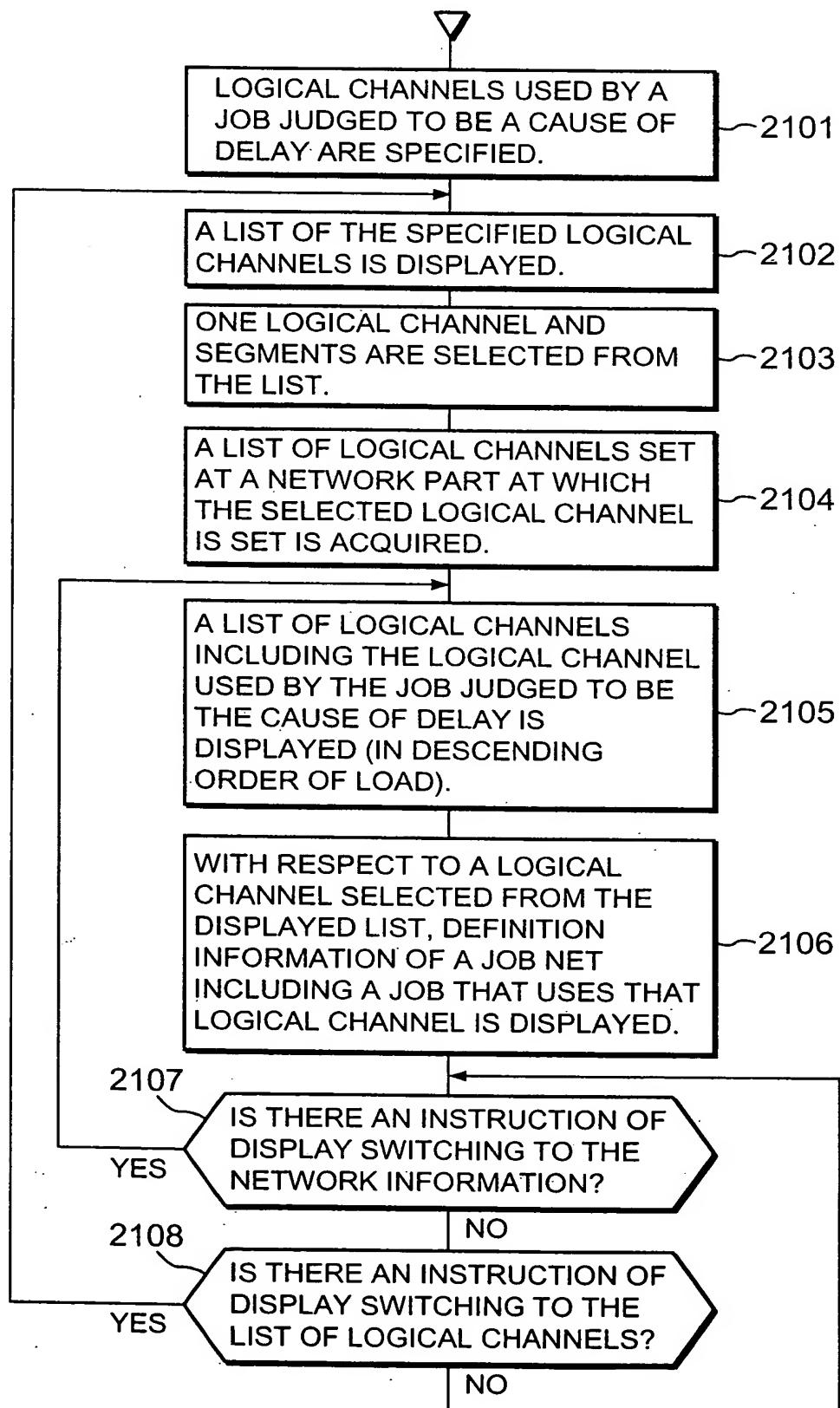


FIG.18



JOB 2 OF JOB NET A AND JOB 1 OF JOB NET B ARE EXECUTED IN PARALLEL IN COMPUTER B.  
→ LOGICAL CHANNEL USED BY JOB 1 OF JOB NET B PASSES A BAND OF A LOGICAL CHANNEL USED BY JOB 2 OF JOB NET A.

FIG.19



## FIG.20

JOB NET/JOB NAMES: JOB NET A/JOB 2		
LOGICAL CHANNEL NAME	SOURCE - DESTINATION	NETWORK NAME
2001-4000	COMPUTER B - COMPUTER C	SEGMENT A
3001-4005	COMPUTER B - COMPUTER F	SEGMENT B

FIG.21

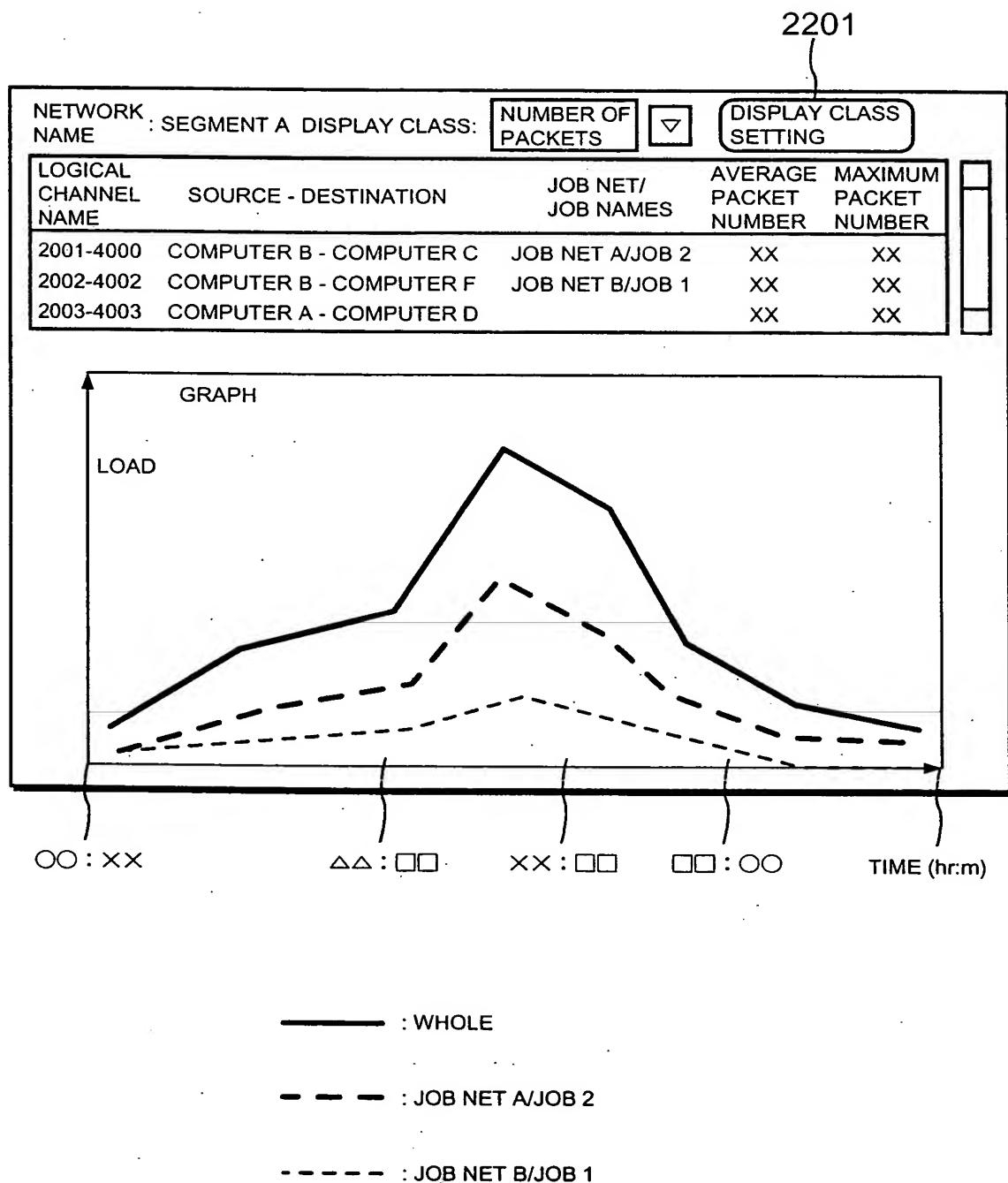
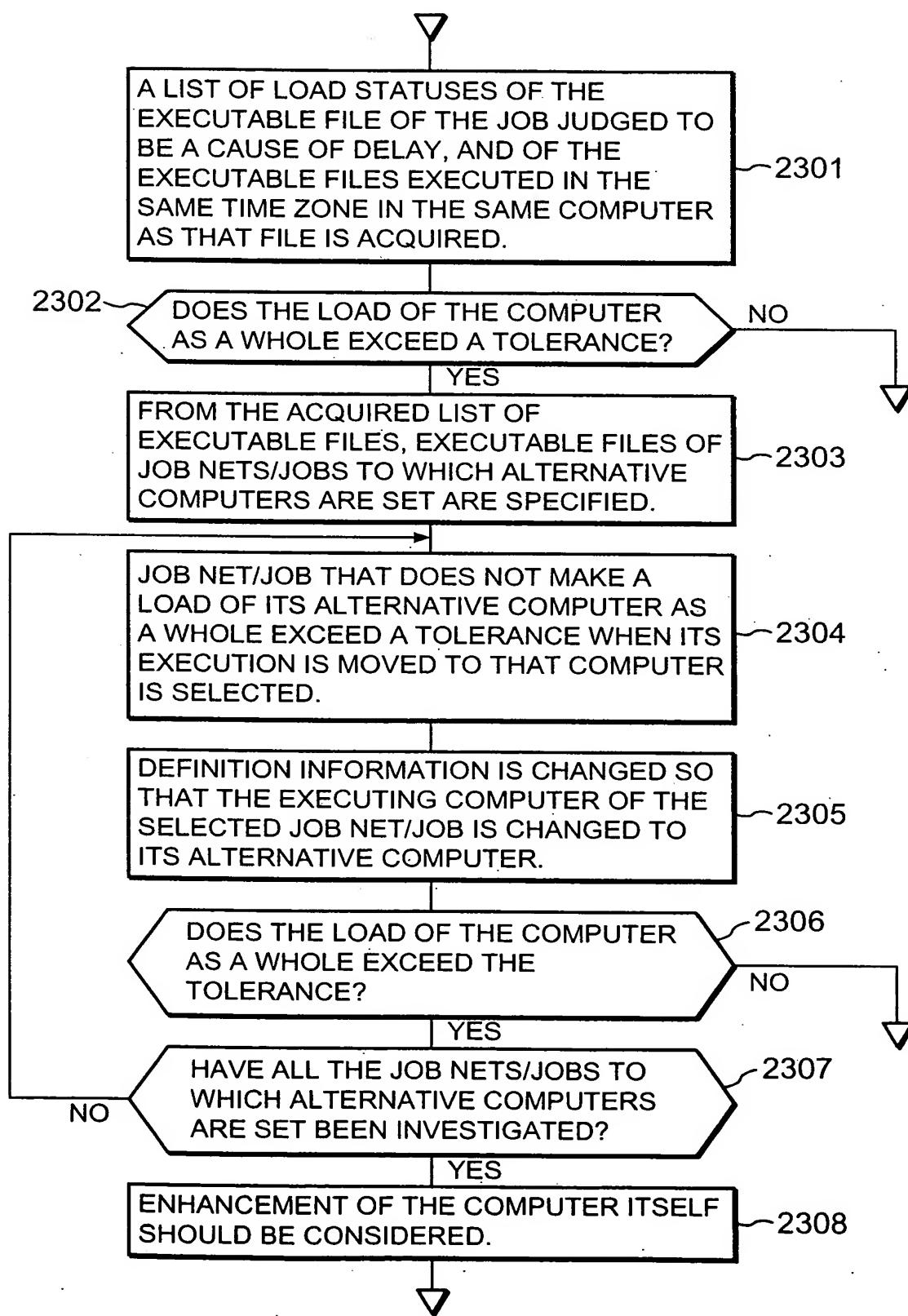


FIG.22



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**FIG.23**

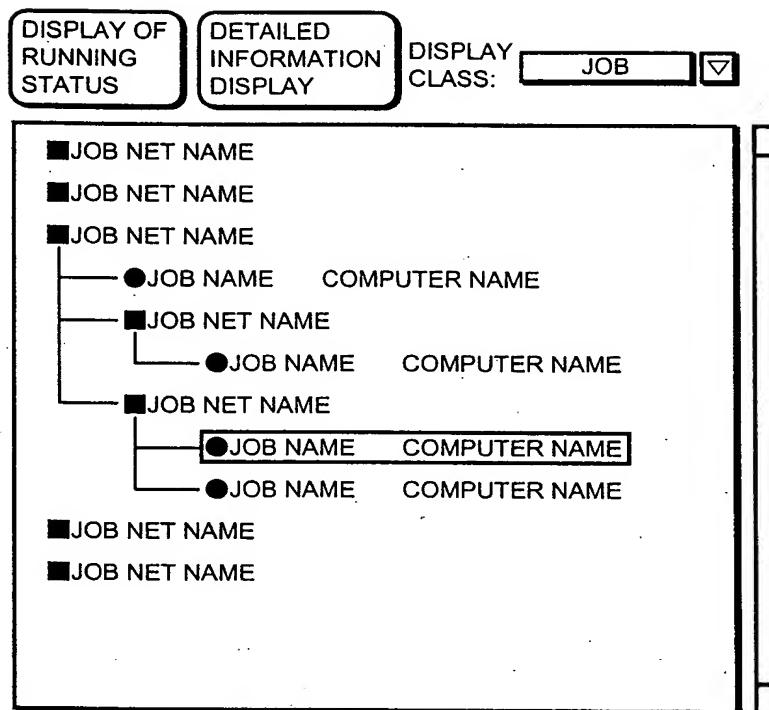


FIG.24

